

MEET THE L-39 SKYFOX



L-39 Sky Fox



IN SERVICE WITH
THREE OPERATORS
WORLDWIDE

PROVEN FOR PILOTS

OF 4TH-5TH GENERATION

FIGHTER AIRCRAFT

COVERS BASIC,
ADVANCED
AND LIFT TRAINING

DESIGNED FOR SENSORY TRAINING CUSTOMIZATION-READY AND MULTIROLE MISSION PLATFORM

ROOTED IN AERO LEGACY

SINCE 1968, THE AERO L-39 ALBATROS HAS BECOME A GLOBALLY SUCCESSFUL TRAINING AND MULTIROLE PLATFORM, WITH ALMOST 3,000 AIRCRAFT DELIVERED AND STILL IN USE BY MANY CUSTOMERS ALL OVER THE WORLD



Alhatros

L-39 Sky = 0x

TODAY, THE L-39 SKYFOX CONTINUES THIS LEGACY, FEATURING A SIGNIFICANTLY IMPROVED DESIGN, CUTTING-EDGE MATERIALS AND TECHNOLOGIES, WHILE RETAINING THE EXCEPTIONAL FLIGHT CHARACTERISTICS OF ITS PREDECESSOR



FEATURES & CAPABILITIES

MODERN AVIONICS

- ▶ 2x2 multi-function large screen displays
- Synthetic vision PFD with Highway In The Sky (HITS)
- ▶ Performance based approach (compliant approach using RNP/LPV)
- ► HOTAS flight control concept
- ► Head-up display with repeater in the rear cockpit
- ▶ Segregated flight critical data and mission/tactical training data
- ▶ Optional Electronic Standby Instrument System (ESIS)

TECHNICAL FEATURES

- ▶ 5 hardpoints 4 underwing and 1 under the center fuselage
- ► Eastern or Western type of symbology and cockpit layout
- ► Exceptional visibility from the cockpit
- ▶ Built-in test for ground support for fast turnaround time
- Display symbology adaptable for similarity with selected fighter
- ► Wet wings with integrated fuel tanks
- ► Martin Baker MK16 CZ16H with 0-0 capability
- ► Highly maneuverable, extended playtime
- ▶ 4 underwing and 1 center pylons
- ► Service life up to 15,000 FH
- ► Payload up to 1,540 kg

EFFICIENT PROPULSION

- ▶ Williams FJ44-4M turbofan engine, ITAR free, with millions of flight hours in its lineage
- ▶ Battery-started
- ► Easy line-in maintenance and long major periodic Interval (800 hrs)
- ▶ Pre-paid maintenance program
- Low fuel consumption, low noise and heat signature
- ► High acceleration and reaction

TRAINING FEATURES

- Ground Based Training System (GBTS)
- Mission Planning and Debriefing System (MPDS)
- ► Integrated Training System (ITS)
- ► Embedded Virtual Training System (EVTS)
- Live, Virtual, Constructive (LVC) capability

MISSION FEATURES

- ▶ Weapons integration
- ► Encrypted communication
- ► EO/IR with laser designator
- ► NVG capable
- DACAS training pod
- Flexible for tactical pod integration



TRAINING CAPABILITIES:

- ► Covers full spectrum of training from basic training to lead-in fighter training
- ► Airmanship habits for 4th-5th generation fighters Seamless transition through system similarity
- ► Air-to-Air combat scenarios
- ► Air-to-Ground combat scenarios
- ► DACAS and ISR training scenarios
- ► Efficient training with VTS scenarios as:
 - Constructive air and ground threats
 - Dissimilar Air Combat Training (DACT)
 - Low level intercept training
 - 2v1 defensive/offensive maneuvers up to 2v2 WVR/BVR intercept

TACTICAL AND MULTIROLE CAPABILITIES

- ► Air-to-Air and Air-to-Ground mission capabilities with:
 - Unguided bombs, rockets and gun pods
 - Precise guided bombs and missiles
- ► Intelligence-Surveillance-Reconnaissance (ISR) missions with EO/IR sensors as
 - Border patrolling
 - Maritime surveillance
 - Anti-piracy, anti-smuggling
- ► Digitally-Aided Close Air Support (DACAS)
- ► Counter-insurgency operations

BASIC & ADVANCED TRAINING AIRCRAFT



TACTICAL AND MULTIROLE AIRCRAFT



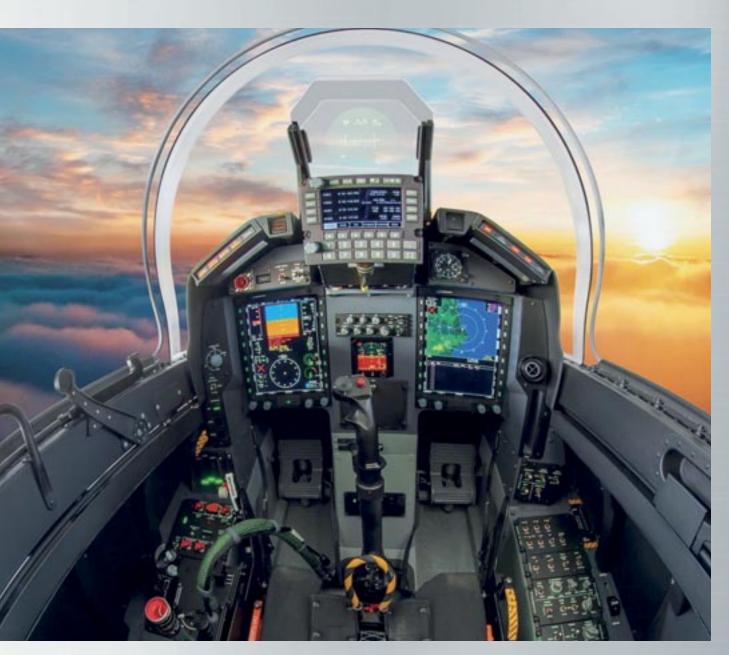


TECHNICAL DATA



PERFORMANCE DATA	
► Empty weight	3,280 kg
► Max. take-off weight	5,600 kg
► Max. payload	1,540 kg
▶ Internal fuel tank capacity	1,150 kg
► External fuel tank capacity	570 kg
► Number of hardpoints	5
► Max. airframe service life	15,000 FH
► Max. speed/ Mach	490 KIAS/ M .8
► Max. g-load	+ 8g/ -4g
► Max. range/clean/ext. tanks	1060/ 1350 NM
► Max. endurance /clean	3h 45m
► Max. endurance /with external fuel ta	inks 4h 50m





FULL GLASS COCKPIT

- ► HOTAS throttle grip & control stick
- ▶ Head-Up Display (HUD) in the front cockpit with repeater in the rear cockpit
- ▶ 2 multifunction displays (MFD/PFD)
- Universal management unit (UMU)
- ► Electronic Standby Instrument System (ESIS) backup instrument system



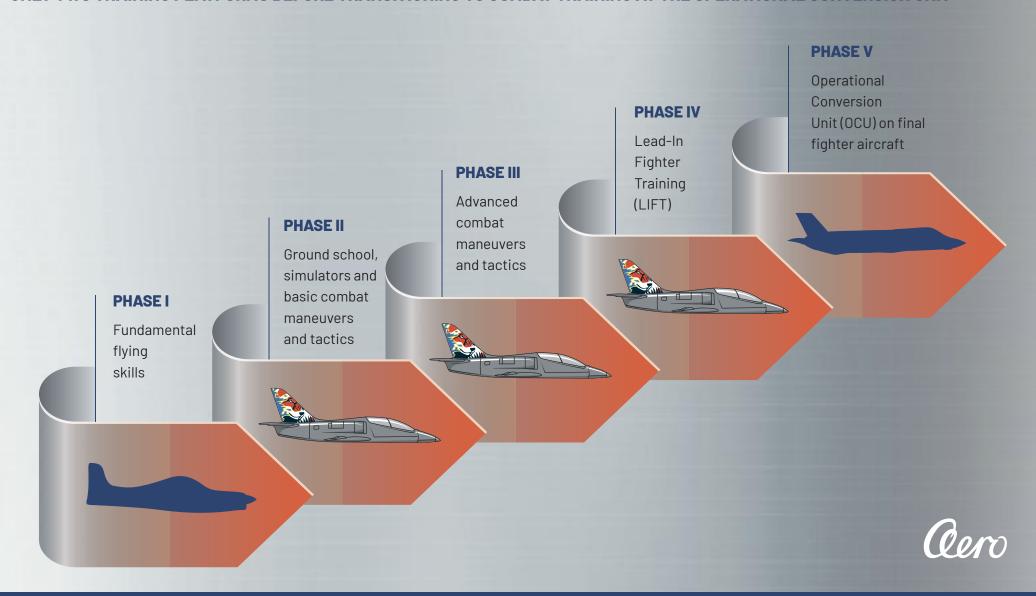
COMPLETE TRAINING SYSTEM







THE L-39 SKYFOX ENABLES AIR FORCES TO TRAIN CADET PILOTS EFFECTIVELY AND EXTREMELY COST-EFFICIENTLY, USING ONLY TWO TRAINING PLATFORMS BEFORE TRANSITIONING TO COMBAT TRAINING AT THE OPERATIONAL CONVERSION UNIT



INTEGRATED TRAINING SYSTEM



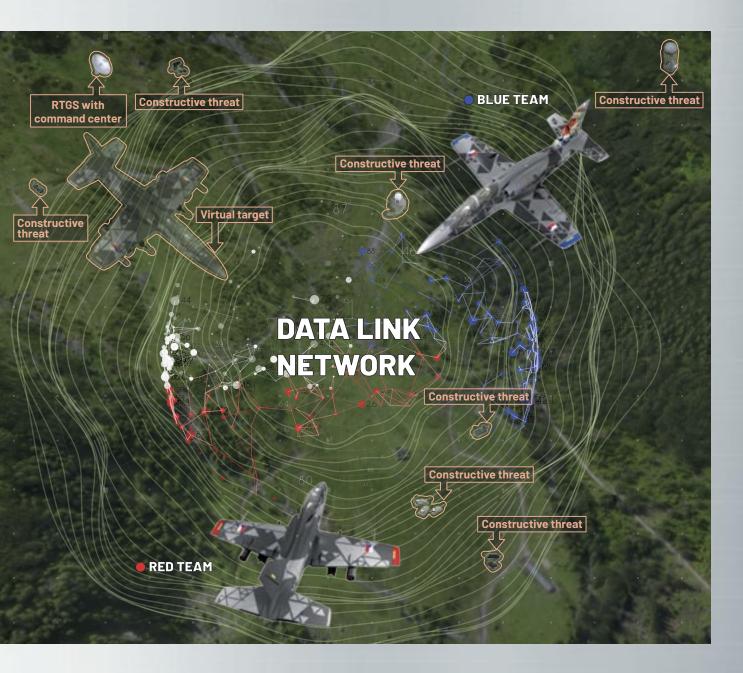


INTEGRATED TRAINING SYSTEM

A comprehensive training solution designed to prepare pilots and aircrew for operating advanced aircraft which combines real aircraft training with ground based simulation to create a cost-effective and efficient training environment

- ➤ Configured for Live, Virtual, and Constructive (LVC) combat drill
- ► Embedded Training System:
 - Virtual Training System (VTS)
 - Synthetic radar
 - Tactical map
- ► Simulated Training System:
 - Air-to-Air gun
 - Air-to-Ground gun, bombs, rockets
- ► Ground Based Training System (GBTS):
 - Computer Based Training (CBT)
 - Desk-Top Trainer (DTT)
 - Cockpit Procedure Trainer (CPT)
 - Full Mission Simulator (FMS)
 - Mission Planning and Debriefing System (MPDS)
 - Learning Management System (LMS)

L-39 Sky = 0x



KEY ADVANTAGES:

- ► Extremely cost-effective training solution
- ► Simulated weapons delivery
- Enhanced safety
- Reduces training restrictions
- Adaptive training system
- Distributed simulation training
- Expanded training area

VTS CORE COMPONENTS:

- ► Tactical Situation Display (TSD)
- ► Virtual Radar Display (VRD)
- Data link

VTS OPTIONAL UPGRADES:

- ► Real time ground stations
- ► Virtual Stores Management System (SMS)
- Virtual Radar Warning Receiver (RWR)

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WEAPONS AND PAYLOADS

EXAMPLES OF WESTERN PAYLOADS



EXAMPLES OF EASTERN PAYLOADS

EFT 350 I	GP bombs OFAB-100-250-270	Practice bombs P-50-75	Rocket launchers UB-16-57UMP (Rockets S-5)	Gun pod (12.7 mm)

L-39 Skyrox



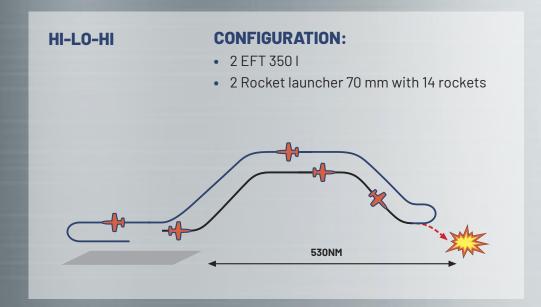
PYLON NO.	5	4	3	2	1
Maximum weight of carried load [kg]	295	400	150	400	295
PERMISSIBLE EXTERNAL STORES FOR "WESTER	N" LIGHT A	TTACK CONF	IGURATIONS:		
Rocket launchers (7 and 19 tubes) with 70 mm rockets	•	•	-	•	•
GP bombs MK 81	•	•	-	•	•
GP bombs MK 82	-	•	-	•	-
BDU-33 with bomb dispenser	•	•	-	•	•
Gun pod (12.7 mm) (max 3 pcs on aircraft)	•	•	•	•	•
External fuel tanks (EFT)	-	•	_	•	-

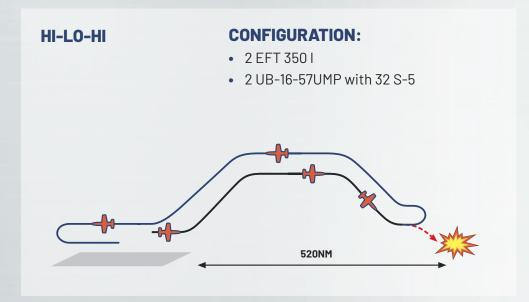
Note: • Possible stores combinations.

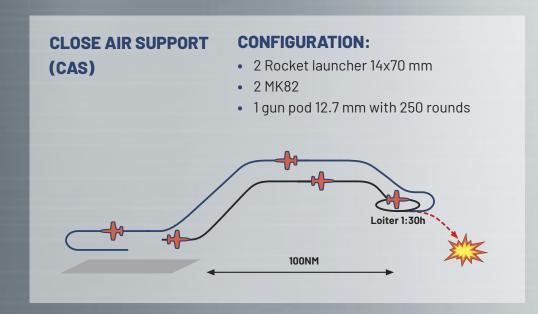
• Future capability growth options include Infrared-guided Air-to-Air missiles, EO/IR sensors, IFF systems and encrypted radio communication — all available upon customer request and developed in close cooperation.

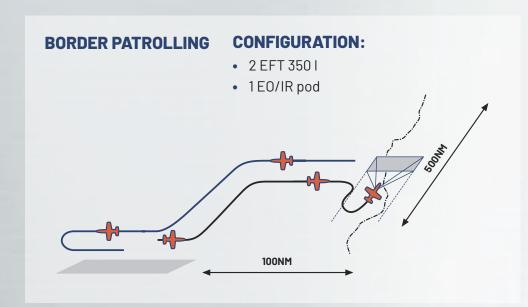


MISSION PROFILES









L-39 Skyrox

OPERATIONAL CAPABILITY FROM UNPAVED OR UNIMPROVED SURFACES





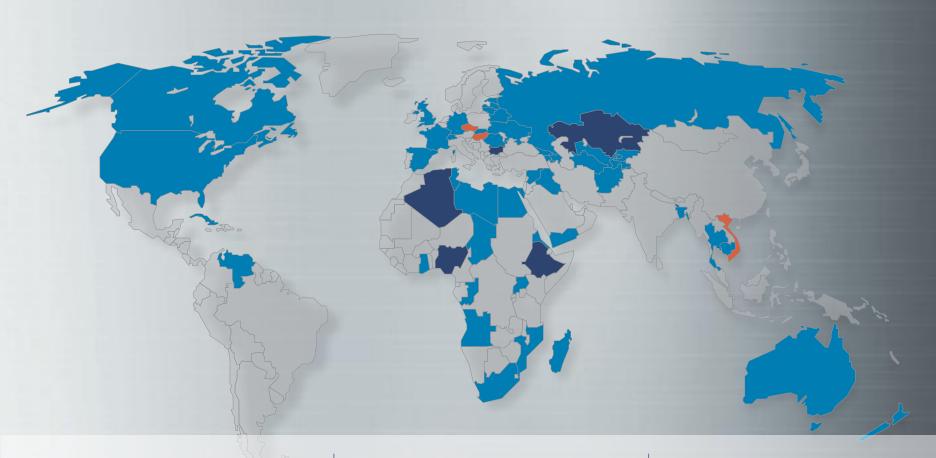
NEW SUPPORT MODEL DRIVING HIGHER AIRCRAFT AVAILABILITY AND LOWER OPERATING COST

Skycare is a next-generation customer support program designed to maximize fleet availability and and to ensure that military operators can focus on what matters the most — mission performance. Through comprehensive integrated logistics support and maintenance services provided on a pay-by-the-hour basis. Skycare redefines sustainment and delivers complete predictability of operational costs for the L-39 Skyfox fleet. With Skycare, Aero can guarantee over 85% fleet availability for the next 40+ years.

SKYCARE PROGRAM PILLARS:

- ► Integrated logistics support covering scheduled and unscheduled maintenance of the L-39 Skyfox aircraft and all its subsystems
- Comprehensive engineering and field service support provided by Aero specialists
- ▶ Dedicated, digitally enabled customer care concept





HISTORICAL PRESENCE OF AERO 60+

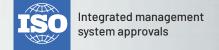
L-39 MODERNIZATION & SUPPORT



and many more all over the world

CURRENT L-39 SKYFOX CUSTOMERS











Approvals for civil & military aviation

AERO CERTIFICATIONS

- ► Flight training organization
- Approved training organization
- ► EMAR 147

